AB ABOY COOL OF R. D. MO.

Moab District
San Rafael Resource Area
P. O. Drawer AB
Price, Utah 84501

267

CERTIFIED MAIL--Return Receipt Requested Certification No. 672 500 426

Mr. A. J. Cornell Castle Valley Mining Company P.O. Box 1240 Castle Dale, UT 84513

NOV 1 5 1985

Your plan of operations for conducting mining and milling operations for cypsum in T. 19 S., R. 10 E., Section 23, SHI/4 is approved subject to the following stipulations.

- 1. If any cultural or paleontological values are discovered during the course of operations, work will cease at the site and the Area Manager will be notified.
- 2. No oil or lubricant will be drained onto the ground surface.
- 3. Trash will be collected and contained and will not be allowed to accumulate. All trash will be hauled to a local county or city dump or landfill.
- 4. Reclamation procedures will be completed between October 15 and November 30. Any pit walls will be reduced to a 50 percent or 1:2 slope. Disturbed areas will be restored to approximately the original contour. The topsoil will be spread and the area reseeded with the following seed mixture at the rate of 8 pounds per acre if drilled, but the rate will be doubled if the seed is broadcast and harrowed.

Grasses/Species	·	Pounds Per Acre
Indian ricegrass Sand Gropseed Blue gramma Curly grass	Cryzopsis hymenoides Sporobolus cryptandrus Bouteloua gracilis Hilaria jamesii	1
Shrubs/Species		•
Shadscale	 Atriplex confertifolia 	1/2
Four-wing saltbush	Atriplex canescens	1/2
Minterfat	Eurotia lanata	. 1/2
hormon tea	Ephedra Sp.	1/2
Sweet clover	Helilotus Sp.	2 1/2
	Total	. <u> </u>

5. A bond in the amount of \$25,000 will be obtained and a copy submitted to the San Rafael Area Office prior to any mining activity. Alternatively, the operator may, in lieu of the bond, deposit and maintain \$25,000 in cash or securities in a Federal depository account of the United States Treasury.

- 6. Buildings will be painted such that the structures blend into the surrounding landscape.
- 7. The operator will obtain all necessary State permits including those for air quality, mining, and water. The State standards for air quality and water will be adhered to by the operator.
- 6. If the livestock water-pipeline is damaged or broken during the course of operations, the pipeline will be repaired immediately. If livestock are prevented from drinking from the stock tank due to the operation, the tank will be moved to a suitable location by the operator.

Approval of this plan will not now or in the future serve as a determination of the ownership or the validity of any mining claim to which it may relate.

6.37

Sincerely yours,

15/ Sames 3. Rouday

Samuel R. Rowley Area Manager

kS1mmons:al:11/14/65 Wang 01870

TO SERVE DEED A SERVE

File Coae: 1791/3809

ENVIRONMENTAL ASSESSMENT COVER SHEET

[] Draft EA [X] Final	EA No. <u>LT-U67-</u>	66-05
Project: Plan of Operatio	ns for Chalk Hills Gypsum M	ine & Mill
Applicant: <u>Castle Valley</u>	Project Mining Company Location: Tle	9S, R10E, Sec. 23, SW1/4
Intensity of Analysis: [] Minimal [X] Low [j Medium
BLM Office: San Rafael Re	source Area Phone No	o. <u>€01−€37−4584</u>
List of Preparers:		·
Name	<u>Title</u>	Rescurces Assigned
T. Jeff Carroll	Kilalife Biologist	wilclife .
Les Dobson	Hygrologist ,	Air Quality/hater
Steve Falk	hining Engineer	Mining
A. Laurelle Hughes	Realty Specialist	Realty
Terry Humphrey	Recreation Planner	Recreation/Visual/ Wilderness
Mervin S. Miles	Environ. Protec. Spec.	Reclamation
Blaine Miller	Archaeologist	Cultural
Davio S. Orr	Range Conservationist	Range/Vegetation
Neil A. Simmons	Geclogist	Team: Leader/Topography/ Geology/Paleontology/Soils
neila Limmon	/Geologist	11-14-85
Team Leacer Sign	ature/Title	Date

DECISION RECORD AND FINDING OF NO SIGNIFICANT IMPACT

I. PROJEC	T IDE	NTIFIC	CATION
-----------	-------	--------	--------

EA No. Ut-067-86-05	Project Type: Plan of Operations
Operator: Castle Valley Mining	Lease/ROW No.
Project Location: T15S, RTUE,	Other Info.
Section 23, SW1/4	
Submittal Date: October 8, 1985	Field Insp. Date: October 9, 1985

II. DECISION RECORD

A. Decision:

I have decided to proceed with the proposed action which is to approve the plan of operation for the opening of a gypsum mine and construction of a mill. A bond in the amount of \$25,000 would be required.

B. Rationale:

No unnecessary or undue degradation of the lands involved with the plan of operations would occur.

C. Environmental Considerations

Environmental impacts would be minor and the only irreversible and irretrievable commitment of resources would be the loss of the gypsum.

D. Stipulations

The stipulations following are included as part of this Decision Record. The stipulations have been developed through this Environmental Assessment to mitigate the environmental impacts of the action permitted by this Decision Record.

111. FINDING OF NO SIGNIFICANT IMPACT (Does not apply to Categorical Exclusions)

Based on the analysis of potential environmental impacts contained in this Environmental Assessment, I have determined that impacts are not expected to be significant. Therefore, an Environmental Impact Statement is not required.

Area Manager, San Rafael

////5/85 Date

STIPULATIONS

EA No.: <u>UT-067-86-05</u>	Project: Chalk Hills Gypsum Mine
Applicant: Castle Valley	Mining Company
Description of Action Cor	sidered: Approve Plan of Operations for Castle Valley
Mining Company's gypsum m	nine and mill.

The following stipulations have been developed through the above referenced Environmental Assessment to mitigate the environmental impacts of this action. The action referenced is the alternative indicated on the Decision Record and mentioned above, and is described fully in the Environmental Assessment.

- 1. If any cultural or paleontological values are discovered during the course of operations, work will cease at the site and the Area Manager will be notified.
- 2. No oil or lubricant will be drained onto the ground surface.
- 3. Trash will be collected and contained and will not be allowed to accumulate. All trash will be hauled to a local county or city dump or landfill.
- 4. Reclamation procedures will be completed between October 15 and November 30. Any pit walls will be reduced to a 50 percent or 1:2 slope. Disturbed areas will be restored to approximately the original contour. The topsoil will be spread and the area reseeced with the following seed mixture at the rate of 8 pounds per acre if drilled, but the rate will be doubled if the seed is broadcast and harrowed.

Grasses/Species	·	Pounds Per Acre
Indian ricegrass Sand dropseed Elue gramma Curly grass	Oryzopsis hymenoides Sporobolus cryptandrus Bouteloua gracilis Hilaria jamesii	1 1 1
Shrubs/Species		
Shadscale Four-wing saltbush kinterfat Mormon tea Sweet clover	Atriplex confertifolia Atriplex canescens Eurotia lanata Ephegra Sp. Melilotus Sp. Total	1/2 1/2 1/2 1/2 2

- 5. A bong in the amount of \$25,000 will be obtained and a copy submitted to the San Rafael Area Office prior to any mining activity. Alternatively, the operator may, in lieu of the bond, deposit and maintain \$25,000 in cash or securities in a Federal depository account of the United States Treasury.
- 6. Buildings will be painted such that the structures blend into the surrounding landscape.
- 7. The operator will obtain all necessary State permits including those for air quality, mining, and water. The State standards for air quality and water will be adhered to by the operator.
- 8. If the livestock water pipeline is damaged or broken during the course of operations, the pipeline will be repaired immediately. If livestock are prevented from drinking from the stock tank due to the operation, the tank will be moved to a suitable location by the operator.

I. INTRODUCTION

Castle Valley Mining Company has submitted a plan of operations for opening a gypsum mine and construction of a mill under 43 Code of Federal Regulations (CFR) 3805.1-5. Applicable acts and regulations are General Mining Law of May 10, 1972 and Federal Land Policy and Management Act of October 21, 1976 and 43 CFR 3805.

II. PROPOSED ACTION AND ALTERNATIVES

A. Proposed Action

A gypsum mine would be established on the white (ap #8 placer mining claim on low hills in T. 19 S., R. 10 E., Section 23, Swl/4 in Emery County, Utah, A mill would be constructed at the base of the hill to the east (see map). The mine, mill, and adjacent facilities would require approximately 20 acres. The mining would begin on the east side and proceed to the west. The topsoil would be removed and stockpiled. The gypsum would be ripped by a bulldozer, and then loaded onto a conveyor belt by front-end loaders. Production would be 500 to 1,000 tons per day. The conveyor would transport the gypsum to the mill where it would be crushed and cried. Power at the mill would be supplied by diesel-powered electrical generators. An estimated 10 to 15 persons would be employed by the operation. The processed gypsum would be transported in trucks to local coal mines for use as rock cust or to local communities for sale as a soil conditioner.

The operator has indicated in the plan of operations that the operation would be fenced and the land recontoured at the end of operations with the disturbed area being reclaimed according to the Bureau of Land Management (BLN) recommendations. Also the operator would protect the livestock water pipeline which runs adjacent to the county road.

E. Alternatives

No Action

The result of this action would be not to allow Castle Valley Mining Company to construct a mill and open a gypsum mine.

III. AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES

A. Regional Setting

The proposed operation is located on the western flank of the San Rafael Swell in Emery County, Utah.

E. Natural Environment

1. Air Quality and Noise

The air quality in the affected area is good although it can be dusty at times, especially when it is windy. The subject land is in Class II area which provides for well controlled growth and development to protect air quality. Most noise is caused by vehicles passing through the area on the county road.

a. Proposed Action

Dust would be generated by excavation and crushing of the gypsum and by vehicular traffic. The diesel generator and vehicles would emit fumes. The particulate air quality standards would probably be exceeded locally for short periods of time, but the operation would not have any effect on regional air quality. Obtaining an air quality permit from the Utah State Air Quality Board would assure that the operation would not exceed National and State air quality standards. Noise generated by the equipment and the mill would be heard for several miles.

b. No Action

No impact.

2. <u>Soils</u>

Soils in the area are generally clayey to sandy, poorly developed and shallow.

a. <u>Proposed Action</u>

The small amount of soil loss would occur due to a minor increase in the erosion rate caused by the proposed operation.

b. No Action

Erosion rates would be maintained at their present rates.

3. <u>Topography</u>

The subject land is located on the west flank of the San Rafael Swell, a breached doubly plunging anticline. To west are the broad Castle Valley and the Wasatch Plateau.

a. Proposed Action

The surface of the hill would be lowered by 12 to 20 feet due to the removal of the bed of gypsum.

b. No Action

No impact.

4. Geology

The Jurassic Carmel Formation outcrops on the subject land and dips less than 10 degrees to the west-northwest. Fossils founded in the Carmel include clams, oysters, snails, ammonoids, scaphopods, crinoids, bryozoans, worms, corals, starfish, and echinoids.

a. Proposed Action

An undetermined number of fossils could be destroyed by the proposed operation. The gypsum removed would be irreversibly and irretrievably lost.

b. No Action

No impact.

5. Water

There is no live water on the subject land. The nearest perennial stream is the San Rafael River, 2.25 miles to the south.

a. Proposed Action

The excavation of the material would cause a small increase in the amount of sediment contained in the surface runoff. No significant increase in the total suspended particle content in perennial streams is expected as the result of the operation.

b. No Action

No impact.

6. Vegetation

Vegetation in the affected area consists of Indian ricegrass, sand dropseed, curly grass, shadscale, Castle Valley clover, four-wing saltbush, winterfat, and snakeweed.

a. Proposed Action

Vegetation would be destroyed on 20 acres for the duration of the operation. keclamation should restore productivity to its former levels.

b. No Action

No impact.

7. Animals

Mammals found in the affected area include antelope, coyotes, cottontail rabbits, jackrabbits, wood rats, badgers, ord kangaroo rats, red foxes, gray foxes, white-tail antelope, ground squirrels, bats, mice, and voles. Birds occurring in the area include sparrows, swallows, wrens, horned larks, golden eagles, marsh hawks, rough-legged hawks, ferruginous hawks, red-tailed hawks, and prairie falcons. Reptiles frequenting the subject land are side-blotched lizards, western fence lizards, great basin gopher snakes, striped whipsnakes, western rattlesnakes, western terrestrial garter snakes, woodhouse toads, and great plains toads.

a. Proposea Action

Animals would be displaced into surrounding areas by the operation for the life of the project, but they would be expected to return once reclamation is completed.

b. No Action

No impact.

C. Cultural Environment

1. Human Aspects

A county road runs adjacent to the proposed operation on the east and north sices. This road would be used for access. A livestock watering tank and piteline occur next to the county road.

a. <u>Proposed Action</u>

The operation could interfere with the livestock use of the watering tank. Heavy vehicular traffic could damage or break the pipeline, thereby reducing or eliminating water flow. If the operation prevents livestock use of the watering tank, the operator would have to move the tank to a suitable location. The operator would be responsible for any damage to the pipeline caused by his operation and the pipeline would be repaired immediately upon discovery of any damage.

b. No Action

No impact.

2. Land Uses

Oil and gas lease U-56040 covers the subject land. The White Cap #8 mining claim (UNC 232950) was located on October 6, 1980, by Clark R. Powell, Claudette Powell, Randy Powell, Corey Powell, Melvin H. Kingsbury, Bertha

Kingsburg, Zachery Powell, and Dana Erman. The 160-acre placer mining claim was leased/sold to A.J. Cornell. A small pit exists at the northeast corner of the proposed mine.

Primary land uses are grazing and recreation. The subject land is in the Buckhorn Allotment and the grazing capacity is 1 animal unit month (AUM) per 25 acres. Recreational use is primarily sightseeing by recreationists on their way to Wedge Overlook. Most use occurs during the spring and fall.

a. Proposed Action

There would be a minor decrease in forage available for livestock for the life of the project. The mine and mill would be a visual distraction to recreationists on their way to the Wedge Overlook. Reclamation should restore the area such that it would blend in with the surrounding landscape.

b. No Action

No impact.

3. Visual Resources

The affected area is in a Class III visual management area in which contrasts to the basic elements of form, line, color, and texture caused by a management activity may be evident and begin to attract attention in the characteristic landscape; however, the changes should remain subordinate to the existing characteristic landscape.

a. Proposed Action

The operation as proposed would not meet the standards of Class III for the life of the project. Painting the structures to blend in with the surrounding landscape would partially mitigate the visual impact.

b. No Action

No impact.

4. Land Use Plans

Emery County has the area zoned as Mining and Grazing 1 (M&G-1). The San Rafael Management Framework Plan (1979) encourages development of mining claims providing the activity does not impact other resources significantly.

a. Proposed Action

The proposed operation is in conformance with both local and BLM land use plans.

b. No Action

No impact.

5. Socioeconomics

The nearest town is Castle Dale, 13 miles to the west-northwest, which had a population of 2,499 in 1983. Currently several coal mines are closed or producing at reduced levels, thereby depressing the local economy.

a. Proposed Action

The proposed operation would provide jobs for an estimated 10 to 15 people, thus reducing the unemployment rate which would benefit the local economy to a minor extent.

b. No Action

The unemployment rate would not be reduced and the local economy would not be benefitted.

IV. CONSULTATION AND PUBLIC INPUT

A. Agencies and Individuals Consulted

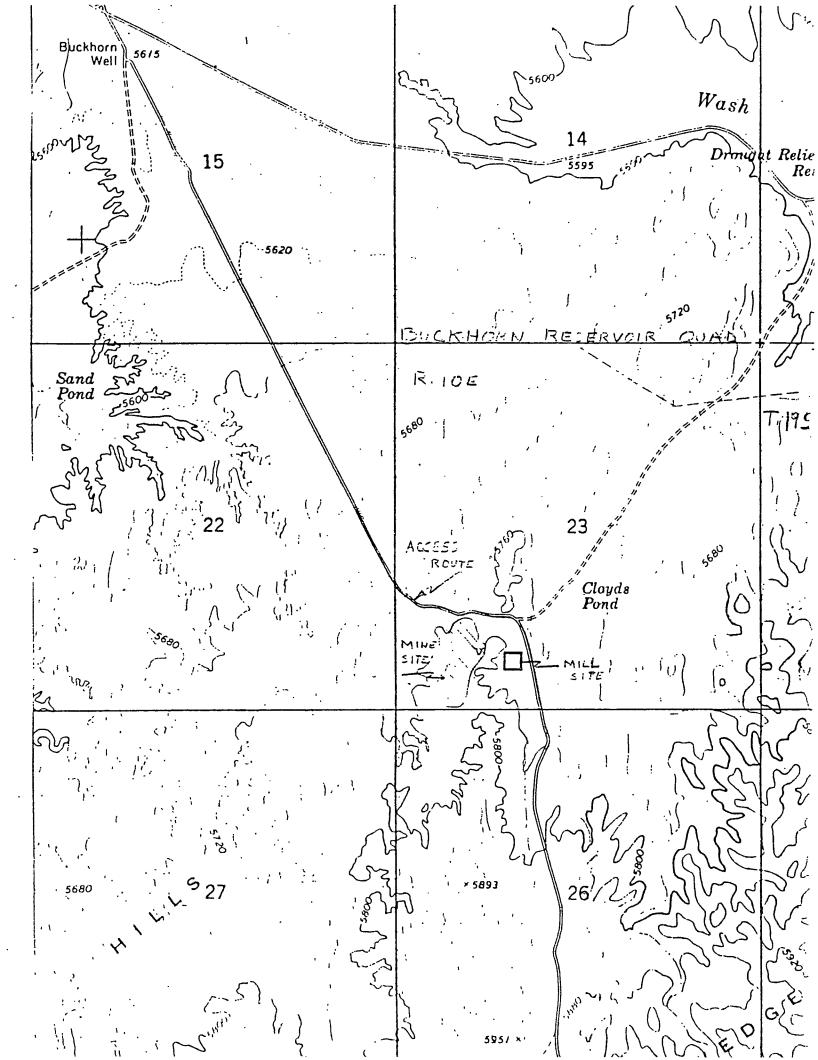
No agencies or individuals were consulted.

B. Public Input

No public comment period was held.

Appendices

- A. Map
- Environmental Assessment Worksheet
- C. Checklist for Environmental Assessment
- D. Photographs
- E. Plan of Operations



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ENVIRONMENTAL ASSESSMENT WORKSHEET

1. A	1. Action Plan of operations for a gyrsum mine and mill in the chalk Hills area Til95, R. 10 E, Section 23, 5 6/14								
	tages of implementation						·		
	3. DISCRETE OPERATIONS		14.	9			7		
····	4. COMPONENTS, SUBCOMPONENTS, AND ELEMENTS IMPACTED	<u>`</u>		YTICII MPAC		<i></i> D	1	6. REMARKS	
·	A. AIR				-				
	Climate Emissions Particulates	6	0						
	larticula 18		- <u>L</u>	-L		 			
10	B. LAND					-			
COMPONENTS	Topography Geology	-L 0	0	0					
NONLIVING C	Paleontology	X	0	0	,				
I. NO	C. WATER								
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	Surface Waler	<u>-</u> L	- L	U.					
	A. PLANTS (Aquatic)								
PONENTS	N.A.			···					
LIVING COMPONENTS									
11. 1						•••••			

	COMPONENTS, SUBCOMPONENTS, AND ELEMENTS IMPACTED			TICIPA IMPAC			REMARKS
•	B. PLANTS (Terrestrial)						,
	Grasses	M	-L	0		 	
	Shrubs	-/N	- L	0	 	-	
	rovo.			0	<u> </u>	-	
	C. ANIMALS (Aquatic)		ļ				
	NA.	-				_	

	D. ANIMALS (Terrestrial)	-	<u> </u>			-	
						<u> </u>	
	Mammals Birds	-W	- <u>w</u>	- - - -			
	Roptiles	-W	- W	- L			
1	A. LANDSCAPE CHARACTER						
							<u> </u>
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	7344	-147	717			ļ <u>-</u>	
	B. SOCIOCULTURAL INTERESTS						
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	Socioeconomics Cultural	-X	0	0			
	Recreation	M	-11	-1_			
1	A. ECOSYSTEM PROCESSES,						\\\\\\\\\
	STRUCTURES, AND FUNCTIONS	0	0	0			
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- - line has greater impact than the same fence viewed over an entire allotment. Generally, narrow viewpoints better illustrate specific impacts than will broad viewpoints.
 - c. Assumptions may be made to establish a base for analysis (e.g. estimated time periods, season of year,
- Stages of Implementation Identify different phases of proposed project (e.g. a road project consists of survey, construction, use, and maintenance stages).
- 3. Discrete Operations Identify separate actions comprising a particular stage of implementation (e.g. the construction stage of the road project has the discrete operations of clearing, grading, and surfacing).
- Elements Impacted Enter under appropriate heading all environmental elements susceptible to impact from action and alternatives. Relevant elements not contained in the digest should also be entered. See BLM Manual 1791, Appendix 2, Environmental Digest.
- some proper the effect is detrimental while to others it is an improvement. By not entering a plus (+) or minus (-) sign the worksheet is kept factual and unbiased. If both degree and type of impact are unknown, place an (x) in the appropriate square.
- a. The measures of impact (e.g. low, medium, and high) are relative and their meaning may vary slightly from action to action. The term "low" should not be applied to impacts of a negligible nature. For example, we know that a pickup truck driving down a proposed fence line laying wire has some impact on air quality. However, the significance of this impact is not normally great enough to warrant even a "low" rating, in cases like this, the impact will usually be marked "O" or the element left off the worksheet.

 b. It is recognized that some environmental elements may defy accurate measurement or in-depth analysis within current Bureau capabilities or expertise. The nature of the action as well as type and degree of impact should guide in the decision to seek outside expertise or assistance.

or assistance.

6. Remarks - Enter clarifying information.

Gypsum Mine

The following mandatory items have been considered in this Environmental Assessment. Items which may be impacted have been discussed within the Environmental Assessment; the remainder will not be affected and are not discussed.

Proposed Action: Approve a Plan of Operations to mine gypsum in the Chalk Hills area,

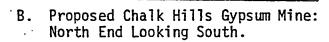
				·
	May Be Impacted	Will Not Be Affected		Specialist Signature/ Date
1.	a.[]	[4]	Threatened or Endangered Species - Plants	J. Mule (10)18/55
	b.[]	[4]	Threatened or Endangered Species, - Animals	J. Symbol 10/185
2.	[]	[4	Floodplains and Wetlands	(n & Deson 11/13/85
3.	[]	[<] ,	Wilderness Values	Jenny R-E- MM 10/21/25
4.	[]	[×]	Areas of Critical Environmental Concern,	seem (Linuxion 10/2/185
5.	⊠Í	[].	Visual Resource Managemen	1 0 1 d
6.	[4]	(]	Water Resources	(a & Delisar 1 11/13/85
7.		[]	Air Quality	la E boson 11/13/95
8.	[].	[v]	Cultural or Historic Resources	Elair a miller 10/22/85
9.	[,]	L]	Paleontological Resources	
10.	[]	[×]	Prime or Unique Farmlands	Hour Min 1010/85
11.	[]	[/]	Wild and Scenic Kivers	Jany C. Commerce 10/21/85
2125	ency with I	local dovernm	analyzed for conformance went plans. Significant di nvironmental Assessment.	with BLM plans and con- iscrepancies are dis-
		. .		

Plan was approved on October 16.1979 Local government plans and date: Figure County vassed a Zoning resolution in Tanuary 1984	BLM Plan and	date: San Rafael Mana	coment Frame	work
Local government plans and date: Figure County passed a				
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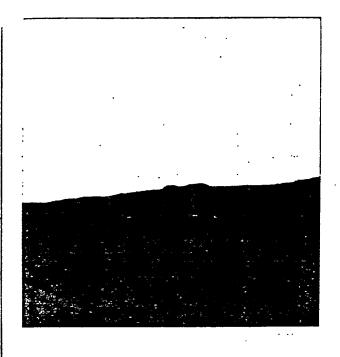


A. Existing Pit.



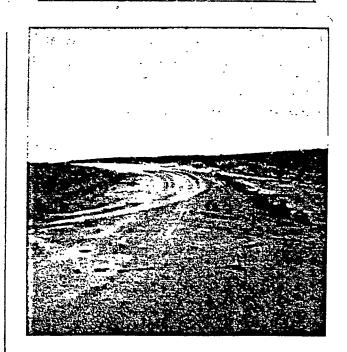


C. Proposed Mill Site as Viewed From the Hill.



D. Proposed Mill Site as Viewed From the County Road.

E. Access - County Road.



Utah State Office BLM 524-3110 Bob Randolph Randolph said he spoke to Mr. Cornell and the estimated production would be 500 to 1,000 tons per day, New a. Immons 11-12-85

3809 (U-067) Moab District
San Rafael Resource Area
P. O. Drawer AB
Price, Utah 84501

Mr. A. J. Cornell
Castle Valley Mining Company
P. O. Box 1240
Castle Dale, Utah 84513

OCT 31 1985

Dear Mr. Cornell:

Pursuant to 43 CFR 3809.1-6(a)(3) we will require an additional 30 days to review your plan of operations. We have been unable until the week of October 26 to obtain a specialist to address the impacts your plan of operations would have on air quality and water resources in the environmental assessment we are currently preparing.

We would like to remind you that the State of Utah also requires permits such as a mining permit from the Division of Oil, Gas and Mining and an air quality permit from the Division of Air Quality.

We need the estimated production for the proposed gypsum mine and mill, both daily and yearly. Please contact Neil Simmons of my staff at 637-4584 regarding these production figures. Thank you for your cooperation.

Sincerely yours,

181 LARRY H. EYRE

Area Manager

NAS1mmons:ds:10/31/85 Mag Card II

Acting

3809 (U-067) Moab District
San Rafael Resource Area
P. O. Drawer AB
Price, Utah 84501

OCT 2 2 1985

Mr. A. J. Cornell Castle Valley Mining Company P. O. Box 1240

Dear Mr. Cornell:

We have received and reviewed your notice for construction of a mill floor on the White Cap No. 7 mine claim in Emery County, Utah. The livestock water pipeline which occurs on the claim will have to be protected; and, if it is broken during the course of operation, the pipeline will have to be repaired immediately.

The construction of the mill will also be addressed in the environmental assessment currently being prepared on the plan of operations which you submitted earlier.

Sincerely yours,

lal Samuel H. Henry

Area Manager

NASimmons:ds:10/21/85 Nag Card II sald frames

-AIPA Residicot 8 mas

MINING PLAN

Filed by

Castle Valley Mining Company to satisfy the requirements of 43 CFR 3809.1-5

1. Operator Name and Mailing Address

Castle Valley Mining Company Attn: Mr. A. J. Cornell. P.O. Box 1240 Castle Dale, Utah 84513

2. Mining Claim Name and Serial Number

White Cap 18 - UMC 284055 232950

3. Location

T. 19 S., R. 10 E., \$\sqrt{S}\text{W1/4 sec. 23, SLC Base and Meridian Buckhorn Reservoir Quadrangle}

4. Description of Operation

Castle Valley Mining Company is planning to mine gypsum from the deposits that crop out along the low ridge just north of Cloyds Pond. Because the deposit is flat lying and crops out at the surface, mining will be done utilizing surface mining methods in the following sequence:

- a. Topsoil will be removed and stockpiled adjacent to the mine area.
- h. The relative flat-lying beds of gypsum will be ripped utilizing a bulldozer.
- c. One or two front-end loaders will load the broken gypsum onto a conveyor belt that will transport the rock a short distance to the mill.
- d. The mill will be housed in a steel 200' x 40' building. Portions of this building will also be utilized for maintenance shops and offices. Rock delivered to the mill will first be cycled through the primary (jaw-type) crusher located just outside of the building.
- e. After ore has passed through the primary crusher it is sent to the secondary crusher where it is classified to the finished size.
- f. Properly sized ore is heated to remove any moisture and then shipped utilizing conventional dump trucks licensed for highway use.

5: Access

Access to and from the mine will be via existing roads.

,

6. Time Frames

If proper permits and permission can be obtained construction of the mill should begin during late October or early November. Once in operation the .mine will operate year round.

7. Periods of Nonoperation

Extended periods of nonoperation are not expected, but should they occur, measures to he taken to maintain the area in a safe and clean manner and to reclaim the land involved to avoid erosion and other adverse impacts shall be filed with the Authorized Officer.

Prevention of Unnecessary or Undue Degradation

To prevent unmecessary and undue degradation all operations will be conducted in a customary and usual manner and consider the effects of mining on other resources and land uses. The pipeline that runs adjacent to the existing road will be protected and mine areas will be fenced to protect livestock. Disturbed areas will be reclaimed according to the attached reclamation plan and BLM recommendations.

9. Power

Power will be generated on site utilizing diesel-powered generators.

- Submitted Cattle walleybying to U.C. Cornell

RECLAMATION PLAN

- L. Access to and from the mine will utilize the network of existing roads.
- 2. The operation will mine only ore. Since no overburden exits at the area to be mined, there will be no waste dumps created.
- 3. Processing the ore involves only crushing and drying; as such, there will be no deleterious materials or substances used or generated at the mine, nor will there be any generation of mill tailings.
- Reclamation will be an ongoing process.
- 5. Reclamation will be commensurate with mining and will include the following steps:
 - a. Topsoil will be pushed aside and stockpiled.
 - b. Mining will proceed from east to west and remove the ore to a depth of about 12 to 20 feet over most of the small knoll. No pits will be created and few if any highways will be developed. As stripping continues the entire elevation of the knoll will be reduced about 15 feet. If any unnatural-appearing benches or highwalls are created during the course of mining, they will be reshaped to blend into the existing contour.
 - c. After reshaping the mined out areas, topsoil will be spread back over disturbed areas.
 - d. Standard farming methods will be used to prepare seed bed prior to planting.
 - e. Disturbed areas will be planted according to BLM recommendations for seed type and amount, season of planting and fertilizer requirements, if any.

SR-86-1 3809 U... M Racid CCT 8 1985

U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MOAB DISTRICT - MOAB, UTAH

NOTICE OF EXPLORATION OR MINING FOR LOCATABLE MINERALS (5 acres or less of surface disturbance)

43CFR 3809.1-3 requires all operators conducting exploration and/or mining for locatable minerals to submit the following information to the Moab District Manager fifteen (15) days prior to the beginning of operations. This form will assist in preparation of the required information.

Name and mailing address of claimant:

Eas Castle Valley Mining Co. A.J. Cornell P.O. Box 1240, Castle Dale, Utah, 84513

2. Name and mailing address of operator (if different than above):

3. Name and Utah Mining Claim (UMC) number for claims involved:

White Cap #8 - UMC 2

4. Describe the activities proposed. Include approximate date of commencement and completion of reclamation. Include description and location of operations and access. Describe type of equipment to be used:

Lay floor for mill - 200'x 40'

5. Will construction of access invlove cuts of more than three (3) feet on the uphill side?

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The undersigned declares that reclamation will be completed to the standards described in 43CFR 3809.1-3(d) and that the Moab District Manager will be contacted upon completion of reclamation.

Oct 8, 1985

Signature of Claimant or Operator